

OPCT Rec'd 13 NOV 2001

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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Anthony Keith CAMPBELL

Serial No. 09/831,142
(PCT/GB99/03654)

Box PCT
Attention: DO/EO

Filed May 7, 2001

PROTEIN AND DNA CODING THEREFOR

REQUEST FOR PERMISSION TO MAKE DRAWING CORRECTIONS

Commissioner for Patents

Washington, D.C. 20231

Sir:

Permission is respectfully requested to amend Figures
1, 2, 3, 4A and 4B, 5A and 5B, 6, 7A, 7B, 7C, and 9 as indicated
in red on the accompanying prints.

Respectfully submitted,

YOUNG & THOMPSON

By



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Arlington, VA 22202
Telephone: 521-2297

November 13, 2001

Clone 40:

(SEQ ID NO: 1)

GAATTCGGCAGCAGTCGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
 GCTCTTGTGCTCTATGCTTAATGCAACCGGGTCCGGTGAGGAAGTACA
 ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
 GGATGACCATTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
 GATCGGGCTTTGGGGCTGTCTGGATTGAACGGCCGGCCAGGTACCAC
 AAAAGCCGCTCGGATTAACTGGATTAACGACACGCGAGTCATGTGTAAACA
 GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATGCCCGGTAGTGTAC
 TACAGACCAAGGAGGAGGAACTGAGAAAACTTTACAAGAAAAATCTC
 TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTCCGCTACAAGGG
 ACGCTGATGATAAATGCATCGAAGGCGACAATTGTGGTGACACTCAGGGTG
 TCCCTATATGACGAAGATAACAATGGTGAATGGATGAAGGTAAGGTGAT
 TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
 AAGATGTTGAATCTGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
 GACACAGTAGACGAGGCTGAAGACACACCGTCAGAACTGGAGAATCTT
 CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACGTGCTGTTACC
 AGACACCTATAACGTGCTCTCAATAATGTGTAACACAGAAATAATCG
 ATAGAATATTGAAAAATAAATGTTAATAAACACTGGTTGAAATATGAAAA
 AAAAAAAAAAAAACTCGAG

Clone 3:

(SEQ ID NO: 2)

GAATTCGGCAGCAGGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
 GCTCTTGTGCTCTATGCTTAATGCAACCGGGTCCGGTGAGGAAGTACA
 ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
 GGATGACCATTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAG
 GATCGGGCTTTGGGGCTGTGTCGGAATTGAACGGCCGGCCAGGTACCAC
 AAGACCGCTGTGATTAATCTGGAGTAAACGACACGAGTCATGTGTACCA
 GAAAAACAATCTTCTCGAGTGTGTGGAGAAATGCCCGGTAGTGTAC
 TACAGACCAAGGAGGAGGAACTGAGAAAACTTTACAAGAAAAATCTC
 TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTCCGCTACAAGGG
 ACGCTGATGATAAATGCATCGAAGGCGACAATTGTGGTGACACTCAGGGTG
 TCCCTATATGACGAAGATAACAATGGTGAATGGATGAAGGTAAGGTGAT
 TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
 AAGATGTTGAATCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
 GACACAGTAGACGAGGCTGAAGACACACCGTCAGAACTGGAGAATCTT
 CTGGTAGATCTATCAGACACTTTTATCAGCAGGACAACGTGCTGTTACC
 AGACACCTATAACGTGCTCTCAATAAATGTGTAACACAGAAATAATCG
 ATAGAATATTGAAAAATAA

Clone 5:

(SEQ ID NO: 3)

GTCTGAAAAGAACAAAATGGCTTGTATCGTTTTCGTTGCTCTTGTGCTCTATGCTTAATGCAACCGGG
 TTCCGGTGAGGAAGTACAATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACTG
 GATGACATTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAGGATCGGGCTTTGGGGCTGTG
 TCGGATGAAACGGGCCGGCCAGGTACCAAGCAAAAGCGCTGTGGATTAACTGGAGTAAACGACACGCACT
 ATGTGTAACAGAAAAACAATCTTCTCGAGGTTGGTGGAGAAATTGCCCGGTAGTGACTACAGACC
 ACAGGAAGACGGAACTGAGAAAACTTTACAAGAAAAATCTCTAGCAAAATGCCAGGCACTTACATGCT
 TATGAGCTGTGCGCTACAGGGGACGCTGATGATAAATGCATCGAAGGCAACAATGTGGTGACAGTCAAG
 GGTGTCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGTAAAGGTTATCCATCTGAGACAAAT
 CGAGGATGATATCAAGGACTGTGGGCTCTTAGACCAAGATGTTGAATCGATTATAGCTGGACTCAAAA
 CGAGTGTGATCTACGAGACACAGTAGACGAGGCTGAAGACACACCGTCAGAACTGGAGAATCTTCTG
 GTAGATCTATCAGACCACTTTTATCAGCAGGACAACGTGCTGTTACCAGACACCTATAACGTGCTCTCA
 TCAATAATGTGTAACAGAAAAATAATCGATAGAATATTGAAAAATAAATGTTAATAGACACTGGTTGAA
 AAAAAAAAAAAAACTCGAG

Fig. 1

```

clone 40      GAATTCGGCACGAGTCGGAAGAACAATAATGCGTTGTATCGTTTTCGTT
clone 3       GAATTCGGCACGAG--GGAAAAGAACAATAATGCGTTGTATCGTTTTCGTT
clone 5       -----GTCGGAAGAACAATAATGCGTTGTATCGTTTTCGTT
               .....

clone 40      GCTCTTGTGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
clone 3       GCTCTTGTGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
clone 5       GCTCTTGTGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
               .....

clone 40      ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTCAACGTGGACT
clone 3       ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTCAACGTGGACT
clone 5       ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTCAACGTGGACT
               .....

clone 40      GGATGACCAATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
clone 3       GGATGACCAATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAG
clone 5       GGATGACCAATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAG
               .....

clone 40      GATCGGGCTTTGGGGCTGTGTCTCGGATTGAACGGGCCGGCCAGGTACCA
clone 3       GATCGGGCTTTGGGGCTGTGTCTCGGATTGAACGGGCCGGCCAGGTACCA
clone 5       GATCGGGCTTTGGGGCTGTGTCTCGGATTGAACGGGCCGGCCAGGTACCA
               .....

clone 40      AAAAGCCGCTGGATTAACTGGAGTAACGCACGCGAGTCATGTGTAACAA
clone 3       AAAAGCCGCTGGATTAACTGGAGTAACGCACGCGAGTCATGTGTAACAA
clone 5       AAAAGCCGCTGGATTAACTGGAGTAACGCACGCGAGTCATGTGTAACAA
               .....

clone 40      GAAAAACAATCTTCTTCGAGGTTGGTGGAATAATGCCCGGTAGTTGAC
clone 3       GAAAAACAATCTTCTTCGAGGTTGGTGGAATAATGCCCGGTAGTTGAC
clone 5       GAAAAACAATCTTCTTCGAGGTTGGTGGAATAATGCCCGGTAGTTGAC
               .....

clone 40      TACAGACCACAGGAAGACGGAAGTGAAGAACTTTTACAAGAAATTCTC
clone 3       TACAGACCACAGGAAGACGGAAGTGAAGAACTTTTACAAGAAATTCTC
clone 5       TACAGACCACAGGAAGACGGAAGTGAAGAACTTTTACAAGAAATTCTC
               .....

clone 40      TAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGG
clone 3       TAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGG
clone 5       TAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGG
               .....

clone 40      ACGCTGATGATAAATGCATCGAAGGCACAAATTCTGCTGACAGTCAAGGGT
clone 3       ACGCTGATGATAAATGCATCGAAGGCACAAATTCTGCTGACAGTCAAGGGT
clone 5       ACGCTGATGATAAATGCATCGAAGGCACAAATTCTGCTGACAGTCAAGGGT
               .....

clone 40      TCCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGGTAAAGTTAT
clone 3       TCCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGGTAAAGTTAT
clone 5       TCCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGGTAAAGTTAT
               .....

clone 40      TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
clone 3       TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
clone 5       TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
               .....

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Fig. 2 (Part 1 of 2)

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clone 40      AAGATGTTGAACTCGATTATACGTGGACTCAAACGAGTGTGATCTACCA
clone 3       AAGATGTTGAACTCGATTATACGTGGACTCAAACGAGTGTGATCTACCA
clone 5       AAGATGTTGAACTCGATTATACGTGGACTCAAACGAGTGTGATCTACCA
               *****

clone 40      GACACAGTAGACGAGGCTGAAGACACACCGTCAGAACTGGAGAATTCTT
clone 3       GACACAGTAGACGAGGCTGAAGACACACCGTCAGAACTGGAGAATTCTT
clone 5       GACACAGTAGACGAGGCTGAAGACACACCGTCAGAACTGGAGAATTCTT
               *****

clone 40      CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACCTGGTCTGTACC
clone 3       CTGGTAGATCTATCAGACCACCTTTTATCAGCAGGACAACCTGGTCTGTACC
clone 5       CTGGTAGATCTATCAGACCACCTTTTATCAGCAGGACAACCTGGTCTGTACC
               *****

clone 40      AGACACCTATAACGTGTCCTCATCAATAATGTGTAAACAGAAATAATCG
clone 3       AGACACCTATAACGTGTCCTCATCAATAATGTGTAAACAGAAATAATCG
clone 5       AGACACCTATAACGTGTCCTCATCAATAATGTGTAAACAGAAATAATCG
               *****

clone 40      ATAGAATATTGAAATAAAATGTTAATAAACACTGGTGTGAATATGAAA
clone 3       ATAGAATATTGAAATAAA-----
clone 5       ATAGAATATTGAAATAAAATGTTAATAGACACTGGTGTGAAA-----AAA
               *****

clone 40      AAAAAAAAAAAAACTCGAG (SEQ ID NO: 1)
clone 3       ----- (SEQ ID NO: 2)
clone 5       AAAAAAAAAAAAACTCGAG (SEQ ID NO: 3)

```

Fig. 2 (Part 2 of 2)

GAATTCGGCAGAGTCGGAAAAGAACAAAATGGCTTGTATCGTTTTTCGTTGCTCTTG
8S
TCGCTCTATGCTTAATGCAACCGGGTTCGGTGAGGAAGTACAATGCGCGATGAATT
GGACACAAGCTAATGAATATGTGTTCAACGTGGACTGGATGACCATTTTCATCTACG
ACTATGGCGCTCAAGAGCAACTGTACGAAGATCGGGCTTTGGGGCTGTGTCGGATTG
3A
AACGGGCCGGCCAGGTACCACAAAAGCCGTCTGGATTAACTGGAGTAACGACACGC
AGTCATGTGTAACAAGAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGC
4S
TAGTTGACTACAGACCACAGGAAGACGGAACGTGAGAAAACTTTACAAGAAAATTCT
CTAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGGACGCTG
ATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTGTCCCTATATGACG
6A
AAGATAACAATGGTGTAAATGGATGAAGGTAAGGTGTTCCATCTGAGACAATCGAGGA
TGATATCAAGGACTGTGGGCTCTTAGACCAAGATGTTGAACCTGATTATACGTGGAC
7S
TCAAAACGAGTGTGATCTACCAGACACAGTAGACGAGGCTGAAGACACACCGTCAGA
AACTGGAGAATTCTTCTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACCTGG
TCGTTACCAGACACCTATAACGTGTCTCATCAATAATGTGTAAACAGAAAATAATC
GATAGAATATTGAAAATAAATGTTAATAAACACTGGTTGAAATATGAAAAAATAA
5A
AAAAAAACTCGAG

Fig. 3 (JE Q ID No. 1)

Untranslated region	
GAATTCGGCAGCAGTCCGAAAGAACAACAA	
Translated region	
ATG GCT TGT ATC GTT TTC GTT GCT CTT GTC GCT CTA TGC TTA ATG	45
M A C I V F V A L V A L C L M	
CAA CCG GGT TCC GGT GAG GAA GTA CAA TGC GCG ATG AAT TGG ACA	90
Q P G S G E E V Q C A M N W T	
CAA GCT AAT GAA TAT GTG TTC AAC GTG GAC TGG ATG ACC ATT TTC	135
Q A N E Y V F N V D W M T I F	
ATC TAC GAC TAT GGC GCT CAA GAG CAA CTG TAC GAA GAT CGG GCT	180
I Y D Y G A Q E Q L Y E D R A	
TTG GGG CTG TGT CGG ATT GAA CGG GCC GGC CCA GGT ACC ACA AAA	225
L G L C R I E R A G P G T T K	
GCC GTC TGG ATT AAC TGG AGT AAC GAC ACG CAG TCA TGT GTA ACA	270
A V W I N W S N D T Q S C V T	
AGA AAA ACA ATC TTC TTC GAG GTT GGT GGA GAA ATT GCC CGG CTA	315
R K T I F F E V G G E I A R L	
GTT GAC TAC AGA CCA CAG GAA GAC GGA ACT GAG AAA ACT TTT ACA	360
V D Y R P Q E D G T E K T F T	
AGA AAA TTC TCT AGC AAA ATG CCA GGC ACT TAC ATG CTT ATG GAC	405
R K F S S K M P G T Y M L M D	
GTG TGC GCT ACA AGG GAC GCT GAT GAT AAA TGC ATC GAA GGC ACA	450
V C A T R D A D D K C I E G T	
ATT GTG GTG ACA GTC AGG GTG TCC CTA TAT GAC GAA GAT AAC AAT	495
I V V T V R V S L Y D E D N N	
GGT GTA ATG GAT GAA GGT AAG GTG ATT CCA TCT GAG ACA ATC GAG	540
G Y M D E G K V I P S E T I E	
GAT GAT ATC AAG GAC TGT GGG CTC TTA GAC CAA GAT GTT GAA CTC	585
D D I K D C G L L D Q D V E L	
GAT TAT ACG TGG ACT CAA AAC GAG TGT GAT CTA CCA GAC ACA GTA	630
D Y T W T Q N E C D L F D T V	
GAC GAG GCT GAA GAC ACA CCG TCA GAA ACT GGA GAA TTC TTC TGG	675
D E A E D T P S E T G E F F W	
TAG ATC TAT CAG ACT ACT TTT ATC AGC AGG ACA ACT GGT CGT TAC	720
*	
CAG ACA CCT ATA ACG TGT CCT CAT CAA TAA	750

* = stop for translation

Fig. 4A (Seq ID Nos 1 and 4)

EcoR I

GAATTCGGCAGAGTCGAAAAGAACAAA

ATG GCT TGT ATC GTT TTC GCT CTT GTC GCT CTA
TGC TTA ATG CAA CCG GGT TCC GGT GAG GAA GTA CAA
TGC GCG ATG AAT TGG ACA CAA GCT AAT GAA TAT GTG
TTC AAC GTG GAC TGG ATG ACC ATT TTC ATC TAC GAC
TAT GGC GCT CAA GAG CAA CTG TAC GAA GAT CGG GCT
TTG GGG CTG TGT CGG ATT GAA CGG GCC GGC CCA GGT
ACC ACA AAA GCC GTC TGG ATT AAC TGG AGT AAC GAC
ACG CAG TCA TGT GTA ACA AGA AAA ACA ATC TTC TTC
GAG GTT GGT GGA GAA ATT GCC CGG CTA GTT GAC TAC
AGA CCA CAG GAA GAC GGA ACT GAG AAA ACT TTT ACA
AGA AAA TTC TCT AGC AAA ATG CCA GGC ACT TAC ATG
CTT ATG GAC GTG TGC GCT ACA AGG GAC GCT GAT GAT
AAA TGC ATC GAA GGC ACA ATT GTG GTG ACA GTC AGG
GTG TCC CTA TAT GAC GAA GAT AAC AAT GGT GTA ATG
GAT GAA GGT AAG GTG ATT CCA TCT GAG ACA ATC GAG
GAT GAT ATC AAG GAC TGT GGG CTC TTA GAC CAA GAT
GTT GAA CTC GAT TAT ACG TGG ACT CAA AAC GAG TGT
GAT CTA CCA GAC ACA GTA GAC GAG GCT GAA GAC ACA
CCG TCA GAA ACT GGA GAA TTC TTC TGG TAG

ATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACCAGAC
ACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCGA
TAGAATATTGAAAAATAAAATGTTAATAAACACTGGTTGAAATATGAA
AAAAAAAAAAAAAAAACTCGAG

Xho I

Fig. 4B (SEQ ID NO: 1)

EEVQCAMNWTQANEYVFVNDWMTIFIYDYGAQEQLYEDRALGLCRIERAGPGTTKAV
WINWSNDTQSCVTRKTIFFEVGGELARLVDRPQEDGTEKTFTRKFSSKMPGTMYLM
DVCATRDADDKCIEGTIVVTVRVSLYDEDNNGVMDEGKVIPSETIEDDIKDCGLLDQ
DVELDYTWTQNECDLPDTVDEAEDTPSETGEFFW

Fig. 5A (SEQ ID No: 5)

MACIVFVALVALCLMQPGSGEEVQCAMNWTQANEYVFVNDWMTIFIYDYGAQEQLYE
DRALGLCRIERAGPGTTKAVWINWSNDTQSCVTRKTIFFEVGGELARLVDRPQEDG
TEKTFTRKFSSKMPGTMYLMDVCATRDADDKCIEGTIVVTVRVSLYDEDNNGVMDEG
KVIPSETIEDDIKDCGLLDQDVELDYTWTQNECDLPDTVDEAEDTPSETGEFFW

Fig. 5B (SEQ ID No: 6)

clone 40 BioXact r7th	GAATTCGGCAGGAGTCGGAAGAAACAATAATGGCTTGTATCGTTTCGTT TGGCTTGTATCGTTTCGTT
clone 40 BioXact r7th	GCTCTTGTCTGCTCTATGCTTAATGCAACCGGGTTCGGGTGAGGAAGTACA GCTCTTGTCTGCTCTATGCTTAATGCAACCGGGTTCGGGTGAGGAAGTACA TATGCTTAATGCAACCGGGTTCGGGTGAGGAAGTACA *****
clone 40 BioXact r7th	ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT *****
clone 40 BioXact r7th	GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA *****
clone 40 BioXact r7th	GATCGGGCTTTGGGGCTGTGTCTGGATTGAACGGGCGGGCCAGGTACCAC GATCGGGCTTTGGGGCTGTGTCTGGATTGAACGGGCGGGCCAGGTACCAC GATCGGGCTTTGGGGCTGTGTCTGGATTGAACGGGCGGGCCAGGTACCAC *****
clone 40 BioXact r7th	AAAAGCGTCTGGATTAACCTGGAGTAACGCACACGAGTCAITGTGAACAA AAAAGCGTCTGGATTAACCTGGAGTAACGCACACGAGTCAITGTGAACAA AAAAGCGTCTGGATTAACCTGGAGTAACGCACACGAGTCAITGTGAACAA *****
clone 40 BioXact r7th	GAAAAACAATCTTCTTCGAGGTTGGTGAGAAATTCGCCGGCTAGTTGAC GAAAAACAATCTTCTTCGAGGTTGGTGAGAAATTCGCCGGCTAGTTGAC GAAAAACAATCTTCTTCGAGGTTGGTGAGAAATTCGCCGGCTAGTTGAC *****
clone 40 BioXact r7th	TACAGACCACAGGAAGACGGAACCTGAGAAAACCTTTTACAAGAAAATCTC TACAGACCACAGGAAGACGGAACCTGAGAAAACCTTTTACAAGAAAATCTC TACAGACCACAGGAAGACGGAACCTGAGAAAACCTTTTACAAGAAAATCTC *****
clone 40 BioXact r7th	TAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGG TAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGG TAGCAAAATGCCAGGCACCTTACATGCTTATGGACGTGTGCGCTACAAGGG *****
clone 40 BioXact r7th	ACGCTGATGATAAATGCATCGAAGGCACAATTTGGTGACAGTCAGGGTG ACGCTGATGATAAATGCATCGAAGGCACAATTTGGTGACAGTCAGGGTG ACGCTGATGATAAATGCATCGAAGGCACAATTTGGTGACAGTCAGGGTG *****
clone 40 BioXact r7th	TCCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGGTAAAGTGAT TCCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGGTAAAGTGAT TCCCTATATGACGAAGATAACAATGGTGTAAATGGATGAAGGTAAAGTGAT *****
clone 40 BioXact	TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC

Fig. 6 (Part 1 of 2)

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rTth          TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
               .....
clone 40      AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
BioXact       AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
rTth          AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
               .....
clone 40      GACACAGTAGACGAGGCTGAAGACACACCCGTCAGAACTGGAGAATTCCT
BioXact       GACACAGTAGACGAGGCTGAAGACACACCCGTCAGAACTGGAGAATTCCT
rTth          GACACAGTAGACGAGGCTGAAGACACACCCGTCAGAACTGGAGAATTCCT
               .....
clone 40      CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACCTGGTCGTTACC
BioXact       CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACCTGGTCGTTACC
rTth          CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACCTGGTCGTTACC
               .....
clone 40      AGACACCTATAACGTGTCTCATCAATAATGTGTAAAACAGAAATAATCG
BioXact       AGACACCTATAACGTGTCTCATCAATAATGTGTAAAACAGAAATAATCG
rTth          AGACACCTATAACGTGTCTCATCAATAATGTGTAAAAC
               .....
clone 40      ATAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAAA
BioXact       ATAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAA
rTth          .....
clone 40      AAAAAAAAAAAAAAATCGAG
BioXact
rTth

```

(SEQ ID No. 1)
(piece of SEQ ID No. 1)
(SEQ ID No. 23)

Fig. 6 (Part 2 of 2)

Oligo 1

ACI ATH TTY TTY CAR GT

Oligo 2

CAR GAR GAR GGN ACI GA

Oligo 2A

TCI GTN CCY TCY TCY TG

Oligo N

TTY AAY GTI GAY TGG ATG

M=A/C

R=A/G

W=A/T

S=G/C

Y=C/T

K=G/T

V=A/C/G

H=A/C/T

D=A/G/T

B=C/G/T

N=A/C/G/T

I=inosine

Fig. 7A*(SEQ ID Nos 7-10, respectively,
in order of appearance)*

Oligo 3A

ACA CAG CCC CAA AGC CCG AT

Oligo 4S

TTG CCC GGC TAG TTG ACT AC

Oligo 5A

CAT ATT TCA ACC AGT GTT TAT TAA

Oligo 6A

CAA TTG TGC CTT CGA TGC A

Oligo 7S

GGA CTG TGG GCT CTT AG

Oligo 8S

ATG GCT TGT ATC GTT TTC GT

Oligo T7

Fig. 7B*(SEQ ID Nos 11-16, respectively,
in order of appearance)*

Oligo ExS

CCA CAC GGA TCC TGA GGA AGT ACA ATG

Oligo ExA

CCA CAC GGA TCC TTA TTG ATG AGG ACA

Oligo Bac1

CTT GTT TTT ATG GTC GTC TAC ATT TCT TAC ATC TAT GCG GAG
GAA GTA CAA TG

Oligo C9 12

CCA CAC AGA TCT AGA ATG AAA TTC TTA GTC AAC GTT GCC CTT
GTT TTT ATG GTC

Oligo BV3

TTT ACT GTT TTC GTA ACA GTT TTG

Oligo BV3

CAA CAA CGC ACA GAA TCT AG

Fig. 7C

(See ID nos 17-22, respectively,
in order of appearance)

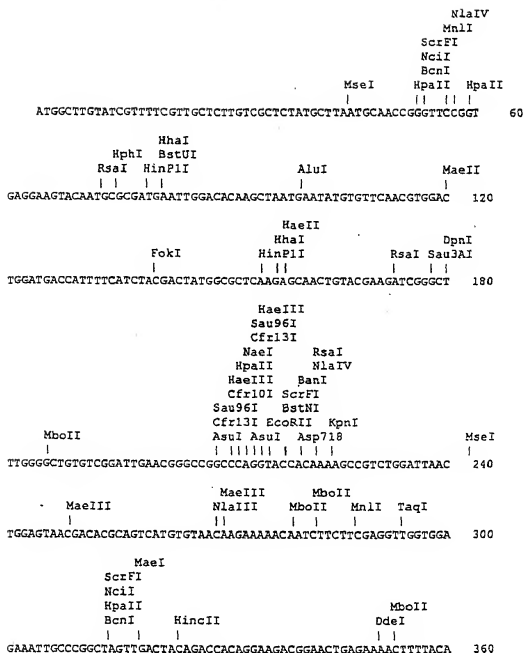


Fig. 9 (Part 1 of 2)
(piece of JE Q 1D No: 1)